

Supplemental Table . Proteins associated with anti-inflammatory and pro-inflammatory HDL in patients with RA.

Protein Name	NCBI accession number	Relative Reporter Ion Intensity ($\times 10^3$)		Fold change in HDL (P) p	
		HDL (A)	HDL (P)	Fold change in HDL (P)	p
Apolipoprotein A-I	4557321	1714.31 ± 286.83	1270.30 ± 273.62	0.74 ± 0.16	0.0664
Apolipoprotein A-II	4502149	196.33 ± 59.48	125.09 ± 12.37	0.64 ± 0.06	0.0938
Fibrinogen γ chain	70906439	108.81 ± 43.45	294.05 ± 39.30	2.70 ± 0.36	0.0008
Fibrinogen α chain	4503689	93.02 ± 37.46	250.39 ± 28.11	2.69 ± 0.30	0.0007
Complement C3	115298678	83.56 ± 14.06	150.51 ± 28.52	1.80 ± 0.34	0.0112
α -1-antitrypsin	50363217	56.85 ± 7.69	77.11 ± 12.49	1.36 ± 0.22	0.0398
Fibrinogen β chain	70906435	53.10 ± 23.38	117.85 ± 15.34	2.22 ± 0.29	0.0052
Albumin	4502027	51.81 ± 4.80	53.62 ± 25.83	1.03 ± 0.50	0.8987
Apolipoprotein B-100	105990532	48.53 ± 3.64	78.51 ± 35.18	1.62 ± 0.72	0.1866
Haptoglobin	119579598	47.29 ± 15.99	77.65 ± 14.02	1.64 ± 0.30	0.0295
Immunoglobulin κ light chain	21669443	42.51 ± 10.16	64.44 ± 21.63	1.52 ± 0.51	0.1360
Apolipoprotein A-IV	93163358	39.42 ± 12.74	44.72 ± 25.02	1.13 ± 0.63	0.7231
Immunoglobulin λ heavy chain	34535607	28.12 ± 4.17	36.54 ± 12.71	1.30 ± 0.45	0.2828
Apolipoprotein C-I	4502157	21.71 ± 6.35	14.97 ± 4.66	0.69 ± 0.21	0.1425
Plasminogen	4505881	18.20 ± 6.04	18.29 ± 2.64	1.00 ± 0.14	0.9805
IGHM	33451	13.19 ± 7.83	17.98 ± 6.75	1.36 ± 0.51	0.3908
Prothrombin (coagulation factor 2)	62897113	11.54 ± 4.34	14.63 ± 3.49	1.27 ± 0.31	0.3118
α -2-macroglobulin	46812315	11.05 ± 1.29	9.16 ± 2.26	0.83 ± 0.20	0.2095
Apolipoprotein J (Clusterin)	42716297	9.93 ± 0.63	14.02 ± 0.82	1.41 ± 0.80	0.0003
Complement C4 binding protein α chain	4502503	8.54 ± 1.98	10.96 ± 1.75	1.28 ± 0.21	0.1178
Apolipoprotein E	4557325	8.22 ± 2.83	7.32 ± 2.32	0.89 ± 0.28	0.6429
Apolipoprotein D	4502163	7.91 ± 3.62	7.31 ± 1.43	0.92 ± 0.18	0.7728
Antithrombin	576554	7.85 ± 4.22	12.46 ± 4.84	1.59 ± 0.62	0.2024

Paraoxonase 1	298532	7.57 ± 1.76	5.00 ± 0.96	0.66 ± 0.13	0.0539
Complement C4B	168986074	7.29 ± 0.45	9.00 ± 2.65	1.23 ± 0.36	0.2887
Fibronectin	34364820	5.99 ± 3.49	5.27 ± 2.52	0.88 ± 0.42	0.7490
α-2 HS glycoprotein	156523970	5.79 ± 1.45	6.69 ± 1.27	1.16 ± 0.22	0.3864
Kininogen 1	156231037	5.77 ± 2.24	8.51 ± 2.15	1.48 ± 0.37	0.1272
Histidine rich glycoprotein	4504489	5.75 ± 3.35	6.71 ± 5.79	1.17 ± 1.01	0.7858
Immunoglobulin λ light chain	21669603	5.38 ± 1.29	8.44 ± 3.89	1.57 ± 0.72	0.2164
Apolipoprotein L	148745121	5.15 ± 1.84	6.99 ± 4.48	1.36 ± 0.87	0.4895
Vitronectin	36573	4.45 ± 1.80	4.83 ± 0.96	1.08 ± 0.22	0.7302
Apolipoprotein C-III	167887493	4.35 ± 1.89	4.74 ± 2.18	1.09 ± 0.50	0.7953
Immunoglobulin heavy chain	34364645	4.34 ± 0.87	13.15 ± 4.10	3.03 ± 0.95	0.0207
Hemoglobin β chain	18418633	3.42 ± 2.37	1.57 ± 0.54	0.46 ± 0.16	0.2168
Serum amyloid A-IV	10835095	2.89 ± 0.83	4.12 ± 0.48	1.42 ± 0.17	0.0535
Inter-α trypsin inhibitor heavy chain H2	33985	2.68 ± 0.80	3.71 ± 0.36	1.38 ± 0.13	0.0782
Apolipoprotein C-II	32130518	2.58 ± 0.81	2.44 ± 0.49	0.95 ± 0.19	0.7853
Vitamin K dependant protein S	131086	2.48 ± 0.71	3.30 ± 0.85	1.33 ± 0.34	0.1932
α-1-acid glycoprotein 1	167857790	2.22 ± 0.35	2.87 ± 0.44	1.29 ± 0.20	0.0616
α-1B glycoprotein	46577680	2.15 ± 0.40	3.92 ± 1.42	1.82 ± 0.66	0.0849
Serpin D1	47678677	2.07 ± 0.20	4.46 ± 0.91	2.15 ± 0.44	0.0114
Complement factor B	13278732	2.03 ± 0.48	4.15 ± 0.57	2.05 ± 0.28	0.0014
α-2-antiplasmin (Serpin F2)	21594846	1.86 ± 0.79	2.26 ± 0.33	1.21 ± 0.18	0.4047
Inter-α trypsin inhibitor heavy chain H4	1483187	1.56 ± 0.40	3.28 ± 1.26	2.11 ± 0.81	0.0661
Transferrin	37747855	1.53 ± 0.33	1.30 ± 0.33	0.85 ± 0.22	0.3671
Complement C1s	4502495	1.38 ± 1.14	1.04 ± 0.21	0.76 ± 0.15	0.6031
α-1-acid glycoprotein 2 (ORM2)	48145977	1.27 ± 0.19	1.91 ± 0.58	1.50 ± 0.45	0.1098
Hemoglobin α chain	13650074	1.18 ± 0.55	1.02 ± 1.15	0.87 ± 0.98	0.8242
Gelsolin	4504165	1.12 ± 0.26	1.69 ± 0.76	1.51 ± 0.68	0.2350
Afamin	4501987	1.09 ± 0.33	1.24 ± 0.13	1.14 ± 0.12	0.4412

Vitamin D binding protein	139641	1.08 ± 0.35	1.50 ± 1.12	1.38 ± 1.03	0.5226
Apolipoprotein M	22091452	1.08 ± 0.30	0.83 ± 0.24	0.77 ± 0.22	0.2513
Complement C1r	62896521	1.07 ± 0.50	0.87 ± 0.31	0.81 ± 0.29	0.5082
Complement C8 β chain	158258917	1.03 ± 0.54	1.91 ± 1.18	1.86 ± 1.15	0.2419
Serum amyloid A-1	134167	0.88 ± 0.77	2.69 ± 0.40	3.05 ± 0.45	0.0109
Inter-α-trypsin inhibitor heavy chain H1	33989	0.87 ± 0.34	1.20 ± 0.31	1.38 ± 0.36	0.2062
Plasma kallikrein	125184	0.83 ± 0.35	1.01 ± 0.15	1.23 ± 0.19	0.3823
Hyaluronan binding protein 2	4758502	0.82 ± 0.20	0.62 ± 0.31	0.76 ± 0.38	0.3307
Complement C4 binding protein β chain	4502505	0.72 ± 0.16	1.54 ± 0.84	2.14 ± 1.17	0.1463
Complement C9	119576392	0.71 ± 0.11	1.43 ± 0.31	2.03 ± 0.44	0.0137
Complement factor H	31965	0.69 ± 0.31	1.17 ± 0.46	1.71 ± 0.66	0.1357
Serum amyloid P	4502133	0.59 ± 0.18	1.00 ± 0.63	1.70 ± 1.07	0.2881
Complement C8 α chain	119627049	0.58 ± 0.23	0.90 ± 0.15	1.54 ± 0.25	0.0695
Coagulation factor XII	119605410	0.48 ± 0.35	0.42 ± 0.10	0.88 ± 0.21	0.7783
Hemopexin	11321561	0.37 ± 0.09	0.72 ± 0.30	1.95 ± 0.82	0.0993
Carboxypeptidase N	119598461	0.33 ± 0.09	0.59 ± 0.29	1.75 ± 0.87	0.1797
Peptidoglycan recognition protein 2	119604889	0.27 ± 0.17	0.23 ± 0.11	0.86 ± 0.41	0.7128
Transthyretin	114318993	0.26 ± 0.14	0.34 ± 0.25	1.32 ± 0.97	0.5964
Serine proteinase inhibitor	28375497	0.25 ± 0.16	0.31 ± 0.19	1.25 ± 0.74	0.6233
Complement C2	62897125	0.16 ± 0.05	0.20 ± 0.09	1.27 ± 0.55	0.4394
Plasma retinol-binding protein	18088326	0.16 ± 0.11	0.51 ± 0.46	3.26 ± 2.92	0.2200
Apolipoprotein H (β-2-glycoprotein)	28810	0.15 ± 0.10	0.17 ± 0.05	1.10 ± 0.30	0.7927
Selenoprotein P	148277022	0.11 ± 0.02	0.14 ± 0.06	1.25 ± 0.49	0.4053
Apolipoprotein F	4502165	0.11 ± 0.05	0.14 ± 0.13	1.24 ± 1.18	0.7278
Complement C1 inhibitor (Serpin G1)	62089238	0.10 ± 0.12	0.28 ± 0.09	2.76 ± 0.90	0.0618
Insulin-like growth factor binding protein	19344010	0.10 ± 0.07	0.19 ± 0.04	1.86 ± 0.38	0.0993
α-1 microglobulin	4502067	0.08 ± 0.05	0.15 ± 0.05	1.72 ± 0.59	0.1264

HDL was isolated by IgY immunoaffinity columns from plasma in RA patients containing anti-inflammatory (A) or pro-inflammatory (P) HDL. Proteins were separated by off-gel electrophoresis and analyzed by LC-MS/MS as described on materials and methods. The average \pm one standard deviation (x 1000) of relative reporter ion intensity of identified protein and fold difference of individual protein in pro-inflammatory HDL based on the average of anti-inflammatory HDL are shown (n=4 per group). T-test was performed for a statistical analysis. Proteins labeled with bold font represent p<0.05.